Category Budget

	PI	ER Share				
Budget Category Item		(\$)	M	atch Share (\$)	•	Total Cost (\$)
Personnel:						
Direct Labor	\$	126,829	\$	4,121	\$	130,950
Fringe Benefits	\$	37,039	\$	1,302	\$	38,341
Total Personal Services	\$	163,868	\$	5,423	\$	169,291
Operating Expenses:						
Travel	\$	4,500	\$	-	\$	4,500
Equipment	\$	-	\$	-	\$	-
Materials/Supplies	\$	55,176	\$	-	\$	55,176
Contractual	\$	570,032	\$	-	\$	570,032
Miscellaneous	\$	-	\$	1,000	\$	1,000
Total Operating Expense :	\$	629,708	\$	1,000	\$	630,708
Overhead:						
Overhead	\$		\$	-	\$	-
Total Overhead	\$	-	\$	-	\$	-
Total	\$	793,576	\$	6,423	\$	799,999

BUDGET DETAILS

Direct Labor, Unloaded Hourly Rates

Direct Edbor, Officuaca Flourity Nates								
Title / Job Classification	Maximum Rate to be Billed* (\$ / Hr)	Number of Hours	PIER Share				To	otal Cost
Local Government Management	\$ 62.58	814.65	\$	46,860	\$	4,121	\$	50,981
Principal Investigator	\$ 77.67	561.60	\$	43,619	\$	-	\$	43,619
Project Manager	\$ 77.67	468.00	\$	36,350	\$	-	\$	36,350
Lipid Chemist	\$ 36.40	2,818.40	\$	102,596	\$	-	\$	102,596
Local Government Management	\$ 24.44	868.40	\$	21,226	\$	4,133	\$	25,359
Mechanical Engineer	\$ 65.05	374.40	\$	24,354	\$	-	\$	24,354
Oceanographic Technician	\$ 24.27	2,818.40	\$	68,397	\$	_	\$	68,397
Principal Investigator	\$ 65.01	398.67	\$	25,918	\$	-	\$	25,918
Project Manager	\$ 29.20	3,537.73	\$	103,307	\$	-	\$	103,307
Project Systems Engineer	\$ 38.93	3,355	\$	130,603	\$	_	\$	130,603
Wastewater Engineer	\$ 48.66	1,702	\$	82,830	\$	_	\$	82,830
	Tota	I Direct Labor	\$	126,829	\$	4,121	\$	130,950

^{*} Maximum salary rates are caps: PIER will not reimburse at a higher rate over the term of the project.

Fringe Benefits

rilige belients							
Title / Job Classification	Maximum % Rate to be Billed*	Base (typically Total Direct Labor)	PIER Share		Match Share	Tot	al Cost
Local Government Management	31.6%	\$46,860	\$	14,808	\$ 1,302	\$	16,110
Principal Investigator	27.8%	\$43,619	\$	12,126	\$ -	\$	12,126
Project Manager	27.8%	\$36,350	\$	10,105	\$	\$	10,105
Lipid Chemist	23.8%		\$	32,044	\$	\$	32,044
Local Government Management	23.8%		\$	6,631	\$ 1,290	\$	7,921
Mechanical Engineer	23.8%		\$	7,607	\$	\$	7,607
Oceanographic Technician	23.8%		\$	21,363	\$	\$	21,363
Principal Investigator	23.8%		\$	8,095	\$	\$	8,095
Project Manager	23.8%		\$	32,266	\$	\$	32,266
Project Systems Engineer	23.8%		\$	40,792	\$	\$	40,792
Wastewater Engineer	23.8%		\$	25,871	\$	\$	25,871
	Total F	ringe Benefits	\$	37,039	\$ 1,302	\$	38,341

^{*} Maximum fringe benefit rates are caps: PIER will not reimburse at a higher rate over the term of the project.

Travel**

Location	Purpose	Number of Trips	People per Trip	PIER	Share*	Match Share	То	tal Cost
Mountain View to Sacramento	Mileage for travel from Mountain View to Sacramento, 2 overnights in hotel for 2 CPR Meetings and one overnight for kickoff	3	2	\$	2,000	\$ -	\$	2,000
Mountain View to Sacramento	Mileage for travel from Mountain View to Sacramento, CA. Overnight in hotel for 4 people for Final Meeting	1	4	\$	2,500	\$ -	\$	2,500
Final Meeting Travel	Mileage for travel from Mountain View to- Sacramento, CA. Overnight in hotel for 4- people.	1	4	\$	2,000	\$	\$	2,000
Project Manager travel	Mileage for travel from Mountain View to Sacramento, 2 overnights in hotel for 2 CPR Meetings and one overnight for kickoff meeting	3	2	\$	2,500	\$	\$	2,500
	-	•	Total Travel	\$	4,500	\$ -	\$	4,500

BUDGET DETAILS

 * PIER Share: Travel is reimbursed at State rates. Higher travel costs can count as Match Share.

^{**} Trips listed as "to be determined (TBD)" require advanced written approval from Commission Project Manager.

Materials, Supplies									
Item	Quantity		Unit Cost	PI	ER Share	Mat	ch Share	T	otal Cost
FO Membrane		\$	10,000.00	\$	10,000	\$	_	\$	10,000
			,		,	•		,	,
CO2 Infrastructure		\$	4,000.00	\$	4,000	\$	-	\$	4,000
Waterproof Portable pH measuring									
Device		\$	1,900.00		1,900	\$	-	\$	1,900
Plastic + Gas Membrane		\$	10,000.00	\$	10,000	\$	-	\$	10,000
Waste Water Testing Supplies		\$	1,500.00	\$	1,500	\$	-	\$	1,500
Cell Counting: Hemocytometer		\$	450.00	\$	450	\$	-	\$	450
Heat Sealers		\$	2,500.00	\$	2,500	\$	-	\$	2,500
Artifical Lighting and Light Meter		\$	3,147.00	\$	3,147	\$	-	\$	3,147
Flow Meters		\$	800.00	\$	800	\$	_	\$	800
Temperature Probes		\$	350.00	\$	350	\$	_	\$	350
Handheld Digital Camera (weather									
proof and strobe light)		\$	1,107.00	\$	1,107	\$	-	\$	1,107
Balance		\$	1,000.00	\$	1,000	\$	-	\$	1,000
Magnetic stirrer		\$	200.00	\$	200	\$	-	\$	200
Wavemaker device		\$	3,200.00	\$	3,200	\$	-	\$	3,200
Consumables (lab supplies)		\$	14,856.00	\$	14,856	\$	-	\$	14,856
Bottles for Centrifuge		\$	166.00	\$	166	\$	-	\$	166
Chiller		-\$	4,500.00	\$	4,500	\$		\$	4,500
Heat Sealer		-\$	4,800.00	\$	4,800	\$		\$	4,800
Tanks		\$	1,000.00	\$	1,000	\$	-	\$	1,000
Wave Machine		-\$	1,000.00	\$	1,000	\$		\$	1,000
Mooring hardware		\$	3.000.00	\$	3,000	\$		\$	3,000
<u> </u>		Ť	-,-,-,-	Ť	-,	-		Ť	-,

Total Materials and Supplies	\$ -	\$ -	\$ 55,176

Equipment							
Item	Quantity	Unit Cost		PIER Share	Match Sha	re	Total Cost
Forward Osmosis Membrane		\$	5,000.00	\$ 5,00	oo \$		\$ 5,000
Materials		4	11,500.00	\$ <u>11,5</u> (90 \$	-	\$ 11,500
ph Meter & 4 probes		\$	8,376.00	\$ 8,37	76 \$	-	\$ 8,376
Plastic + Gas Membrane		\$	10,000.00	\$ 10,00	00 \$		\$ 10,000
Mooring supplies		\$	6,000.00	\$ 6,00	00 \$		\$ 6,000
	То	tal E	quipment	\$	- \$	-	\$ -

Contractual							
Subcontractor Name	Purpose	PI	ER Share	Ma	tch Share	T	otal Cost
SETI	Algae Research, Lipids, and Experimentation	\$	265,730	\$	-	\$	265,730
USRA	Lab & Outdoor Technicial Support	\$	121,485	\$	-	\$	121,485
TBD	Outdoor Wet Labs & Support, Wastewater, Phycology	\$	23,000	\$	-	\$	23,000
TBD	Phycologist and Mechanical Engineer	\$	159,817	\$	-	\$	159,817
	_	\$	-	\$	-	\$	-
	Total Contractual	\$	570,032	\$	-	\$	570,032

BUDGET DETAILS

Miscellaneous					
Item	Purpose	PIER Share	Match	n Share	Total Cost
Permit Cost		\$ -	\$	1,000	\$ 1,000
		\$ -	\$	-	\$
		\$ -	\$	-	\$
		\$ -	\$	-	\$
		\$ -	\$	-	\$
	Total Miscellaneous	\$ -	\$	1,000	\$ 1,000

Overhead						
Name of Overhead	Overhead Base*	Maximum % Rate to be Billed**	Base Cost	PIER Share	Match Share	Total Cost
		0%			\$ -	
		0%	\$ -	\$ -	\$ -	\$ -
		0%	\$ -	\$ -	\$ -	\$ -
		0%	\$ -	\$ -	\$ -	\$ -
	_	0%	\$ -	\$ -	\$ -	\$ -
		Т	otal Overhead	\$ -	\$ -	\$ -

^{*} Base: Define cost categories used to charge Overhead rate, e.g., Total Labor, Total Direct Cost, Materials, Subcontracts, etc.
** Maximum Indirect Overhead rates are caps: PIER will not reimburse at higher rates over the term of the project.

SUMMARY BUDGET BY TASK

Task #	Task Name	PIER Funding (\$)	Match Funding (\$)	Total (\$)
1.1	Attend Kick-off Meeting	\$1,364	\$0	\$1,364
1.1	Attend Kick-off Meeting	\$1,176	\$0	\$1,176
1.2	Critical Project Review Meetings	\$4,557	\$0	\$4,557
1.2	Critical Project Review Meetings	\$4 ,000	\$0	\$ 4,000
1.3	Final Meeting	\$3,632	\$0	\$3,632
1.3	Final Meeting	\$ 3,277	\$0	\$ 3,277
1.4	Monthly Progress Reports	\$21,460	\$0	\$21,460
1.4	Monthly Progress Reports	\$16 ,792	\$0	\$ 16,792
1.5	Final Report	\$12,885	\$0	\$12,885
1.5	Final Report	\$10,082	\$0	\$ 10,082
1.6	Identify & Obtain Matching Funds	\$0	\$0	\$0
1.6	Identify & Obtain Matching Funds	\$0	\$0	\$0
1.7	Identify & Obtain Required Permits	\$0	\$6,423	\$6,423
1.7	Identify & Obtain Required Permits	\$0	\$6,423	\$6,423
1.8	Establish the PAC (optional)	\$0	\$0	\$0
1.8	Establish the PAC (optional)	\$0	\$0	\$0
1.9	Conduct PAC Meetings (optional)	\$0	\$0	\$0
1.9	Conduct PAC Meetings (optional)	\$0	\$0	\$0
2.1	Set up Wet Lab & Outdoor Tanks	\$156,703	\$0	\$156,703
2.1	Set up Wet Lab & Outdoor Tanks	\$136,832	\$0	\$ 136,832
2.2	Milestone 1, OMEGA Integrity Tests	\$131,177	\$0	\$131,177
2.2	Milestone 1, OMEGA Integrity Tests	\$ 127,136	\$ 0	\$127,136
2.3	Milestone 2, Filling, Dewatering, and Harvesting Test	\$128,698	\$0	\$128,698
2.3	Milestone 2, Filling, Dewatering, and Harvesting Test	\$121,13 6	\$ 0	\$121,136
2.4	Milestone 3, Algae Growth and Lipid Extraction	\$129,949	\$0	\$129,949
2.4	Milestone 3, Algae Growth and Lipid- Extraction	\$ 122,63 6	\$0	\$ 122,636
2.5	Milestone 4, Ocean Deployment & Scale- up	\$176,559	\$0	\$176,559
2.5	Milestone 4, Ocean Deployment & Scale- up	\$ 172,451	\$ 0	\$ 172,451
3.1	Technology Transfer and Commercialization Activities	\$26,593	\$0	\$26,593
3.1	Technology Transfer and Commercialization Activities Total	\$78,057 \$793,576	\$0 \$6,423	\$78,057 \$799,999

PIER FUNDING BY TASK

	PIER Funding (\$)	Direct Labor	Fringe Benefits	Travel	Equipment	Materials	Contractual	Misc	Indirect Overhead	G&A	Total
Task 1	Project Administration Activities										
1.1	Attend Kick-off Meeting	676	188	500							\$1,364
1.1	Attend Kick-off Meeting	515	161	500							\$1,176
1.2	Critical Project Review Meetings	2,000	556	2,000							\$4,557
1.2	Critical Project Review Meetings	1,524	476	2,000							\$4,000
1.3	Final Meeting	1,277	355	2,000							\$3,632
1.3	Final Meeting	973	304	2,000							\$3,277
1.4	Monthly Progress Reports	16,792	4,668								\$21,460
1.4	Monthly Progress Reports	12,795	3,996								\$16,792
1.5	Final Report	10,082	2,803								\$12,885
1.5	Final Report	7,682	2,399								\$10,082
1.6	Identify and Obtain Matching Funds	0	0	0	0	0	0	0	0	0	\$0
1.7	Identify and Obtain Required Permits	0	0	0	0	0	0	0	0	0	\$0
1.8	Establish the PAC (optional)										\$0
1.9	Conduct PAC Meetings (optional)										\$0
	Administration Activities Subtotals	\$30,827	\$8,570	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0	\$43,897
Task 2	Project Technical Activities										
2.1	Set up Wet Lab & Outdoor Tanks	14,959	4,727			25,300	111,717				\$156,703
		84,988	26,545		11,300	14,000					\$136,832
2.2	Milestone 1, OMEGA Integrity Tests	14,959	4,443			9,500	102,276				\$131,177
2.2	Milestone 1, OMEGA Integrity Tests	89,639	27,997		3,000	6,500					\$127,136
2.3	Milestone 2, Filling, Dewatering, and Harvesting Test	15,360	4,562			3,500	105,276				\$128,698
2.3	Milestone 2, Filling, Dewatering, and Harvesting Test	89,639	27,997			3,500					\$121,136
2.4	Milestone 3, Algae Growth and Lipid Extraction	14,959	4,443			5,000	105,548				\$129,949
2.4	Milestone 3, Algae Growth and Lipid Extraction	89,639	27,997			5,000					\$122,636
2.5	Milestone 4, Ocean Deployment & Scale-up	14,959	4,510			11,876	145,214				\$176,559
2.5	Milestone 4, Ocean Deployment & Scale-up	122,357	38,217			11,877					\$172,451
3.1	Technology Transfer and Commercialization Activities	20,808	5,785								\$26,593
3.1	Technology Transfer and Commercialization Activities	59,479	18,577								\$78,057
	Technical Activities Subtotals	\$96,002	\$28,469	\$0	\$0	\$55,176	\$570,032	\$0	\$0	\$0	\$749,679
		Direct Labor	Fringe Benefits	Travel	Equipment	Materials	Contractual	Misc	Indirect Overhead	G&A	Total
	PIER Reimbursable Totals	\$126,829	\$37,039	\$4,500	\$0	\$55,176	\$570,032	\$0	\$0	\$0	\$793,576
	Percent of the Total	16%	5%	1%	0%	7%	72%	0%	0%	0%	100%

MATCH FUNDING BY TASK

	Match Funding (\$)	Direct Labor	Fringe Benefits	Travel	Equipment	Materials	Contractual	Misc	Indirect Overhead	G&A	Total
Task 1	Project Administration Activities										
1.1	Attend Kick-off Meeting										\$0
1.2	Critical Project Review Meetings										\$0
1.3	Final Meeting										\$0
1.4	Monthly Progress Reports										\$0
1.5	Final Report										\$0
1.6	Identify & Obtain Matching Funds										\$0
1.7	Identify & Obtain Required Permits	4,121	1,302					1,000			\$6,423
1.7	Identify & Obtain Required Permits	4,133	1,290					1,000			\$6,423
1.8	Establish the PAC (optional)										\$0
1.9	Conduct PAC Meetings (optional)										\$0
	Administration Activities Subtotals	\$4,121	\$1,302	\$0	\$0	\$0	\$0	\$1,000	\$0	\$0	\$6,423
Task 2	Project Technical Activities										
2.1	Set up Wet Lab & Outdoor Tanks										\$0
2.2	Milestone 1, OMEGA Integrity Tests										\$0
2.3	Milestone 2, Filling, Dewatering, and Harvesting Test										\$0
2.4	Milestone 3, Algae Growth and Lipid Extraction										\$0
2.5	Milestone 4, Ocean Deployment & Scale- up										\$0
3.1	Technology Transfer and Commercialization Activities										\$0
	Technical Activities Subtotals	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Direct	Fringe						Indirect		